Integrating Ocean Observations to Improve NOAA's Hurricane Intensity Forecasts

Upper Ocean and Air-Sea Interface Boundary Observing, Analysis, Modeling, and Intensity Forecasting of Hurricanes

WORKSHOP OBJECTIVES

Overarching Goal:

Develop a framework for coordinated ocean observing in support of hurricane intensity science & forecasting, to be potentially demonstrated in an Integrated Field Campaign (IFC) during hurricane season 2022.

Objectives:

1. Improve the state of NOAA's hurricane intensity forecasting system: observations, research, modeling, data assimilation, and data management.

2. Close the gaps in NOAA's current observing of the upper ocean and air-sea transition zone (i.e., air-sea interface, and lower atmospheric boundary layer) based on current and future observing capabilities.

3. Improve integration, coordination, and communication across NOAA ocean observing and modeling activities as it relates to hurricane intensity forecasting.

4. Document these practical and actionable workshop recommendations for future observational and modeling activities to address gaps and to be demonstrated in a potential Integrated Field Campaign during hurricane season 2022.